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detection of said signal detector] at horizontal periods in which there is no result of
comparing said detected sync signal with a reference value and based on a picture
inversion input signal.

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4. (Amended) A method for controlling picture inversion of a liquid crystal
display, comprising:

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detecting a sync signal from a video signal in response to a picture inversion
input signal;

comparing said detected sync signal with a reference value;

determining [whether video image is displayed on the liquid crystal display or not]
horizontal periods in which there is no video image being displayed on said liquid
crystal display in accordance with said comparison result; and

[selectively controlling] providing a picture inversion [operation] control signal in
accordance with a result of said [detection and] determination.

Please cancel claims ~~2~~, ~~3~~ and ~~5~~.

REMARKS

In the Office Action, the Examiner rejected claims 1-5 under 35 U.S.C. §102(b)
as being anticipated by Shirochi U.S. Patent No. 5,155,477.

Applicant has amended claims 1 and 4 to clarify the apparatus and method of
the present invention by incorporating aspects of canceled claims 2, 3 and 5. Applicant
traverses the rejection of the amended claims as being anticipated by Shirochi.

Applicant's claimed apparatus per claim 1 controls the picture inversion of a

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liquid crystal display by " a controller for providing a picture inversion control signal to allow said video signal to be displayed invertedly at horizontal periods in which there is no video image being displayed". The picture inversion control signal is "based on a picture inversion input signal".

Amended method claim 4 controls the picture inversion of a liquid crystal display by the steps including "comparing said detected sync signal with a reference value" and "determining horizontal periods in which there is no video image being displayed on said liquid crystal display in accordance with said comparison result".

The Shirochi reference does not teach or suggest the invention as now claimed in amended claims 1 and 4.

Applicant's claimed apparatus and method is directed to solving an entirely different problem than the Shirochi reference. Applicant's claims as amended eliminate the generation of a noise signal which would otherwise distort the inverted display by providing a picture inversion control signal in a horizontal scan period during which no video image is displayed on the liquid crystal display (LCD). With no such interfering noise signal being generated the inverted video image can be displayed noise free on the LCD.

Shirochi does not anticipate Applicant's claimed invention in that it is directed to solving an entirely different problem associated with variable speed reproduction of recorded video signals from a video tape recorder (VTR), also known as a VCR. Shirochi teaches how to provide a noise free displayed image while reproducing recorded video signal at variable speed by inhibiting providing the scanning signal

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during the variable speed reproducing, and provides a stable, noise free display using the previous image field prior to the variable speed reproducing. This previous image field is a frozen image which is displayed until the variable speed reproducing ends.

While the Shirochi controller does include a controller for the picture inversion signal, there is no teaching or suggestion of generating and providing a picture inversion control signal during a horizontal scan period during which no video image is displayed on the LCD.

In the same way, amended method claim 4 controls the picture inversion of a liquid crystal display and is not anticipated by Skirochi as explained above with respect to claim 1.

Applicant submits that amended claims 1 and 4 are allowable over Skirochi and requests the Examiner to withdraw the rejection and allow the claims.

Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 06-0916.

Respectfully submitted,

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Dated: August 24, 1999

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